

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Original) A method for rights management of digital content and secure delivery
2 of digital content documents from a publisher site to an unsecure site, the
3 method comprising:
 - 4 (a) encrypting each digital content document at the publisher site with a key to
5 generate encrypted document content;
 - 6 (b) computing for each document, from the encrypted document content for
7 that document, a document identifier that cannot be derived solely from
8 the encrypted version of the requested document;
 - 9 (c) creating a list of document identifier and decryption key pairs;
 - 10 (d) assembling the encrypted document content for each content document
11 and the list into a distribution archive;
 - 12 (e) encrypting the distribution archive with a scheduled key;
 - 13 (f) installing a content server at the unsecure site; and
 - 14 (g) sending the distribution archive from the publisher site to the content
15 server.

- 1 2. (Original) The method of claim 1 wherein step (a) comprises compressing each
2 document before encrypting the document.

- 1 3. (Original) The method of claim 1 wherein step (b) comprises computing a
2 document identifier from the encrypted document content and a text string at the
3 publisher site.

- 1 4. (Original) The method of claim 1 further comprising:

2 (h) at the unsecure site, decrypting the distribution archive with the scheduled
3 key, extracting the encrypted document content and storing the encrypted
4 document content in a storage located at the unsecure site.

1 5. (Original) The method of claim 4 wherein a user at the unsecure location
2 accesses the content server from a browser and wherein the method further
3 comprises:
4 (i) downloading a secure viewer program into the browser;
5 (j) using the viewer program to request a document from the content server;
6 (k) downloading an encrypted version of the requested document from the
7 content server to the viewer; and
8 (l) using the viewer to calculate a document identifier from the encrypted
9 version of the requested document and to send the document identifier to
10 the content server.

1 6. (Original) The method of claim 5 further comprising:
2 (m) using the document identifier in the content server to retrieve a decryption
3 key from the list and downloading the decryption key to the viewer
4 program; and
5 (n) using the downloaded key in the viewer program to decrypt the encrypted
6 version of the document and present the document to the user.

1 7. (Original) The method of claim 1 further comprising:
2 (h) monitoring content access at the unsecure site; and
3 (i) creating a log file at the unsecure site from the monitored activities.

1 8. (Original) The method of claim 7 further comprising:
2 (j) sending the log file to the publisher site in return for a distribution archive
3 containing new content.

- 1 9. (Original) The method of claim 8 further comprising:
2 (k) extracting the contents of the log file at the publisher site;
3 (l) formatting the extracted contents and providing a report from the
4 formatted contents to a reporting client.
- 1 10. (Original) The method of claim 7 wherein step (h) comprises monitoring user
2 activities including login to the system, registration, creation of a user profile and
3 the reading and printing of selected content documents.
- 1 11. (Original) Apparatus for rights management of digital content and secure delivery
2 of digital content documents from a publisher site to an unsecure site, the
3 apparatus comprising:
4 means for encrypting each digital content document at the publisher site
5 with a key to generate encrypted document content;
6 an OID calculator that computes for each document, from the encrypted
7 document content for that document, a document identifier that cannot be
8 derived solely from the encrypted version of the requested document;
9 means for creating a list of document identifier and decryption key pairs;
10 means for assembling the encrypted document content for each content
11 document and the list into a distribution archive;
12 an encryptor that encrypts the distribution archive with a scheduled key;
13 means for installing a content server at the unsecure site; and
14 means for sending the distribution archive from the publisher site to the
15 content server.
- 1 12. (Original) The apparatus of claim 11 wherein the means for encrypting each
2 digital content document comprises a compressor that compresses each
3 document and an encryption engine that encrypts the compressed document.

- 1 13. (Original) The apparatus of claim 11 wherein the OID calculator comprises
2 means for computing a document identifier from the encrypted document content
3 and a text string at the publisher site.
- 1 14. (Original) The apparatus of claim 11 further comprising a decryption engine
2 located at the unsecure site that decrypts the distribution archive with the
3 scheduled key, a file decompressor that extracts the encrypted document content
4 and stores the encrypted document content in a storage located at the unsecure
5 site.
- 1 15. (Original) The apparatus of claim 14 wherein a user at the unsecure location
2 accesses the content server from a browser and wherein the apparatus further
3 comprises means for downloading a secure viewer program into the browser,
4 means for using the viewer program to request a document from the content
5 server; means for downloading an encrypted version of the requested document
6 from the content server to the viewer; an OID calculator in the viewer that
7 calculates a document identifier from the encrypted version of the requested
8 document and means for sending the document identifier to the content server.
- 1 16. (Original) The apparatus of claim 15 further comprising means for using the
2 document identifier in the content server to retrieve a decryption key from the list,
3 means for downloading the decryption key to the viewer program and means for
4 using the downloaded key in the viewer program to decrypt the encrypted version
5 of the document and present the document to the user.
- 1 17. (Original) The apparatus of claim 11 further comprising a log server that monitors
2 content access at the unsecure site and means for creating a log file at the
3 unsecure site from the monitored activities.

- 1 18. (Original) The apparatus of claim 17 further comprising means for sending the
2 log file to the publisher site in return for a distribution archive containing new
3 content.
- 1 19. (Original) The apparatus of claim 18 further comprising a reporting server that
2 extracts the contents of the log file at the publisher site, formats the extracted
3 contents and provides a report from the formatted contents to a reporting client.
- 1 20. (Original) The apparatus of claim 17 wherein the log server comprises means for
2 monitoring user activities including login to the system, registration, creation of a
3 user profile and the reading and printing of selected content documents.
- 1 21. (Currently Amended) A computer program product for rights management of
2 digital content and secure delivery of digital content documents from a publisher
3 site to an unsecure site, the computer program product comprising a computer
4 usable storage medium having computer readable program code thereon,
5 including:
6 program code for encrypting each digital content document at the
7 publisher site with a key to generate encrypted document content;
8 program code for computing for each document, from the encrypted
9 document content for that document, a document identifier that cannot be
10 derived solely from the encrypted version of the requested document;
11 program code for creating a list of document identifier and decryption key
12 pairs;
13 program code for assembling the encrypted document content for each
14 content document and the list into a distribution archive;
15 program code for encrypting the distribution archive with a scheduled key;
16 program code for installing a content server at the unsecure site; and
17 program code for sending the distribution archive from the publisher site to
18 the content server.

1 22. (Original) The computer program product of claim 21 wherein the program code
2 for encrypting each digital content document at the publisher site comprises
3 program code for compressing each document before encrypting the document.

1 23. (Original) The computer program product of claim 21 wherein the program code
2 for computing a document identifier comprises program code for computing a
3 document identifier from the encrypted document content and a text string at the
4 publisher site.

1 24. (Original) The computer program product of claim 21 further comprising program
2 code at the unsecure site, for decrypting the distribution archive with the
3 scheduled key, extracting the encrypted document content and storing the
4 encrypted document content in a storage located at the unsecure site.

1 25. (Original) The computer program product of claim 24 wherein a user at the
2 unsecure location accesses the content server from a browser and wherein the
3 computer program product further comprises:
4 program code for downloading a secure viewer program into the browser;
5 program code in the viewer program for requesting a document from the
6 content server;
7 program code for downloading an encrypted version of the requested
8 document from the content server to the viewer; and
9 program code in the viewer for calculating a document identifier from the
10 encrypted version of the requested document and for sending the document
11 identifier to the content server.

1 26. (Original) The computer program product of claim 25 further comprising:

2 program code for using the document identifier in the content server to
3 retrieve a decryption key from the list and downloading the decryption key to the
4 viewer program; and

5 program code for using the downloaded key in the viewer program to
6 decrypt the encrypted version of the document and present the document to the
7 user.

1 27. (Original) The computer program product of claim 21 further comprising:
2 program code for monitoring content access at the unsecure site; and
3 program code for creating a log file at the unsecure site from the
4 monitored activities.

1 28. (Original) The computer program product of claim 27 further comprising:
2 program code for sending the log file to the publisher site in return for a
3 distribution archive containing new content.

1 29. (Original) The computer program product of claim 28 further comprising:
2 program code for extracting the contents of the log file at the publisher
3 site;
4 program code for formatting the extracted contents and providing a report
5 from the formatted contents to a reporting client.

1 30. (Original) The computer program product of claim 27 wherein the program code
2 for monitoring content access comprises program code for monitoring user
3 activities including login to the system, registration, creation of a user profile and
4 the reading and printing of selected content documents.